

REMARKS

Applicants respectfully request reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow, supplemental to the amendment and reply filed on April 13, 2006.

Status of Claims:

No claims are currently being canceled.

Claim 11 is currently being amended. Please note that the amendment and reply filed on April 13, 2006, incorrectly referred to claim 11 as being "Currently Amended", when in fact no amendments were made to claim 11 in that previously-filed amendment and reply. The amendments that were supposed to be made to claim 11 are being made to that claim by way of this supplemental amendment.

Claim 23 is currently being added.

This supplemental amendment adds and amends claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claims remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending and adding the claims as set forth above, claims 1-23 are now pending in this application.

New claim 23:

New independent claim 23 has been added, whereby the patentability of this claim over the cited art of record is discussed in detail below.

The present invention as exemplified by new independent claim 23 is directed to a HSDPA (high-speed downlink packet access) service, in which its downlink is constituted by HS-SCCH (common control channel), HS-PDSCH (common data channel), and DPCH (dedicated physical channel). Likewise, its uplink is constituted by DPCH (dedicated physical channel).

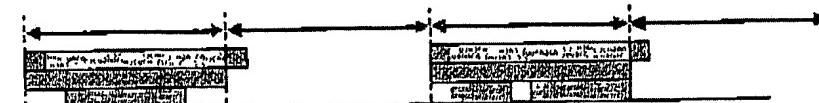
By contrast, the cited art of record is based on the assumption of a data transmission via a dedicated channel, and its downlink is constituted by a Paging channel and a dedicated physical channel. Similarly, the uplink channel of the cited art of record is constituted by a common channel and a dedicated physical channel.

The present invention as exemplified by new independent claim 23 is provided with a time frame, called as a state updating frame. The base station specifies a state (active/suspend) of the base station at the head of respective state updating frames. Once a state is set to the active state, the base station receives date via HS-SCCH at every unit transmission time. When ID of own station's data is being notified via HS-PDSCH, the data transmitted via HS-PDSCH is received. Otherwise, when the suspend is set at the head of the state updating frame, the base station is empowered to suspend all the transmission/reception during the state updating frame.

On the contrary, the prior art automatically transits to the suspend state when no data transmission is occurred over a certain predetermined time. A monitor is kept on even when a state is in the suspend and once it is called a state transits to the active. During the active stats, data is seamlessly transmitted and received via the dedicated physical channel. Please note that the mobile station can execute a receiving processing even while no data transmission has happened. To facilitate this different between the present invention as exemplified by new independent claim 23 and the cited art of record, the discussion made above is shown in diagrammatic form in contradistinction to that of the cited art of record.

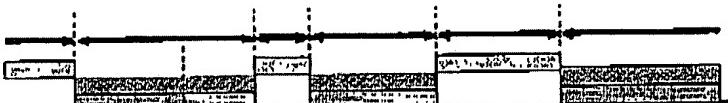
present invention

state updating information PSC OCCII IIS IDOCII dedicated channel



prior art

Paging CH dedicated data channel (data transmission) dedicated data channel (no data transmission)



The present invention as exemplified by new independent claim 23 enables the mobile station to execute a complete suspension of a receiving processing during the suspend state. However, the base station exerts a more surpassing effect on power consumption savings as compared to conventional systems, because of the necessity of keeping receiving data via the Paging channel when a state is in the suspend for conventional systems.

In more detail, new independent claim 23 recites, among other things:

“a mobile station transmitting/receiving section which sets the radio channel to said base station, in which said mobile station transmitting section which transmits signals via the dedicated channel and said mobile station receiving section which receives control information for packet reception when said mobile station is in an active state and receives a packet when the control information is addressed to said mobile station, and receives the signals via the dedicated channel.” Such features as recited in new independent claim 23 are not disclosed, taught or suggested by the cited art of record.

As to claims 1-22, please refer to the Remarks provided in the previously-filed amendment and reply.

Conclusion:

Applicants believe that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check or credit card payment form being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicants hereby petition for such extension under 37 C.F.R. §1.136 and authorize payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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